

Radio

AMATEUR

Call Book Magazine

\$1.00

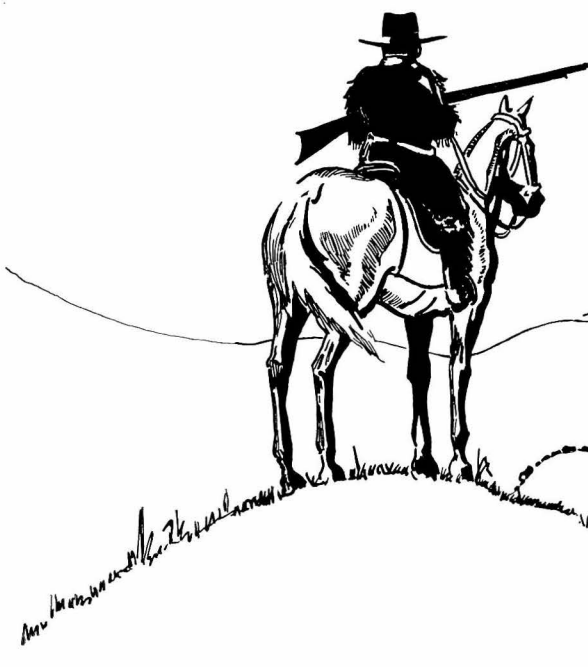
Foreign
\$1.10



FALL 1932

THE PIONEERS

REPLACEMENT STANCOR EXACT- DUPLICATE TRANSFORMERS



In the settled communities . . . along the well-defined highways of commerce and industry, men hasten; doing the things everyone else is doing—in the same way. Occasionally a few bolder spirits than the rest, inspired with farther-reaching vision and the courage of their convictions, strike away from the beaten road toward new horizons. Such men in this new country of America, blazed the Oregon . . . the Santa Fe . . . Dodge City trails—they have been called Pioneers, and their rewards were in keeping with their courage.

Standard Transformer Corporation visioned the field of Exact-Duplicate Replacement Transformers, identical physically and electrically to the original, on which the service men could depend. The Standard Transformer Corporation pioneered the way to satisfactory servicing of the 16,000,000 radio receiving sets already in operation.

A new trail was made . . . already it has

become a broad highway over which Stancor Exact-Duplicate Replacement Transformers flow in a continuous, uninterrupted stream from their source to the distributors all over the country . . . to dealers . . . to service men, that they may be handy to the hand of service men everywhere.

Stancor Exact-Duplicate Replacement Transformers, besides being identical in physical and electrical characteristics to the original, require no re-drilling, rewiring or adjustment of other units of the set to accomplish renewal of original performance. Each is packed individually in a carton accompanied by a planograph diagram and standard color code.

A new 8 page Catalog-Bulletin of Standard Transformer Corporation Exact-Duplicate Replacement Transformers is ready for you. Ask your distributor or drop us a postcard for your copy. Be ready to service with greater satisfaction to you, your customer—and make better profit doing it.

STANDARD TRANSFORMER CORPORATION
865 BLACKHAWK STREET
CHICAGO, ILLINOIS

**WE GUARANTEE OUR
PRICES**
ALL PRICES F.O.B. CHICAGO

CHI-RAD

ESTABLISHED 1921

Prices Subject to Change
AND WE WILL NOT BE
UNDERSOLD

List of Parts to Build 2-Tube Short Wave Receiver as Described in "How to Become a Radio Amateur"

This excellent amateur manual tells you how to build a two tube short wave receiver that will tune from 18 to 190 meters. It is therefore, useful when tuning for foreign short wave broadcast or code (c. w.) stations. This receiver is quite simple to build and from the reports that we have received will give very good results on a head set. If loud speaker operation be desired an extra stage of audio amplification can be added at any time at very small cost. The parts recommended are of the very highest grade.

POTTER FILTER CONDENSERS

1000 V. 1 Mfd.....	\$0.95
1000 V. 2 Mfd.....	1.59
2000 V. 1 Mfd.....	1.95
2000 V. 2 Mfd.....	3.50
600 V. 1/2 Mfd. replacement type.....	.48
600 V. 1 Mfd. replacement type.....	.75
600 V. 2 Mfd. replacement type.....	1.46

FLECHTHEIM FILTER CONDENSERS

1000 V. 1 Mfd.....	\$1.65
1000 V. 2 Mfd.....	2.75
1000 V. 4 Mfd.....	5.00
1500 V. 1 Mfd.....	2.25
1500 V. 2 Mfd.....	3.50
1500 V. 4 Mfd.....	6.00
2000 V. 1 Mfd.....	3.75
2000 V. 2 Mfd.....	6.75
2000 V. 4 Mfd.....	12.00
3000 V. 1 Mfd.....	8.10
3000 V. 2 Mfd.....	13.50
3000 V. 4 Mfd.....	26.00
5000 V. 1 Mfd.....	18.50
5000 V. 2 Mfd.....	24.60
5000 V. 4 Mfd.....	46.00

MORRILL FILTER CONDENSERS

1000 V. 1 Mfd.....	\$1.47
2000 V. 1 Mfd.....	3.82
2000 V. 2 Mfd.....	6.76
3000 V. 1 Mfd.....	6.47

THE NEW NATIONAL SW 58 is very much more selective than the famous AC or DC SW5. This new job will do the trick for any kind of short wave work.

BLILEY CRYSTALS

Are carefully cut (for ham work), each.... \$5.50

EASTERN COIL HOLDERS

Each \$2.50

THORDARSON TRANSFORMERS

T-5303—Plate Transformer—400 volts D.C.—200 m.a.....	\$4.70
T-5338—Filament Transformer.....	3.53
T-2353-A—Swinging Filter Choke.....	2.96
T-5289—Input Transformer—46 to 46's Class "B".....	2.96
T-5339—Output 46's Class "B" to 500 ohms.....	2.96
T-5356—Output 46's Class "B" to 8 or 4 ohms.....	2.96
T-5381—Line Transformer, 500 to 8 or 4 ohms.....	2.65
T-5291—Output 46's Class "B" to 10,000 or 5,000 ohms.....	2.94
T-3020—Double Button Microphone to Grid.....	2.94
T-2876—Coupling Transformer.....	1.76
R-300—Audio Transformer.....	2.35

All Prices Shown Are NET!

1 Tuning Condenser, variable, Pilot J23.....	\$ 0.60
1 Bypass Condenser, fixed, Sangamo .0001.....	.24
1 Bypass Condenser, fixed, Sangamo .00025.....	.24
1 pair Clips for Grid Leak, Sangamo.....	.06
1 Bypass Condenser, B-50, Flechtheim .5.....	.47
1 Rheostat, 20 ohm, Yaxley, Jr.....	.44
1 Grid Leak, 2 meg., 1 watt, Lynch (I.R.C.I.).....	.18
1 (not wire wound) Resistor, regeneration control, Frost 50,000 ohm.....	1.18
1 Transformer, audio, Thordarson R-100.....	1.32
2 Sockets, bakelite, Eby 4 prong.....	.48
1 Dial, tuning, vernier, Kurz-Kasch 3" No. 599.....	.73
1 Panel, bakelite, 6/7/3-16".....	.60
1 Baseboard, wooden, 9"16".....	.50
5 Clips, clarostat, fahnestock type.....	.02
1 Clip, clarostat, double fahnestock.....	.02
1 roll Wire, hookup, pushbak 25 ft.....	.18
5 ft. Wire, hookup, tinned copper No. 12.....	.04
Tubing, 8" (takes 5 pcs. 2" o.d., 1 1/2" long; 1 pc. 2" o.d., 2" long).....	.80
1 spool 1/4 lb. Wire for coils, 1/4 lb. No. 22 d.c. silk.....	.46
4 Binding posts, M-G (like Eby).....	.05 ea.
2 pr. Brackets, mounting, Cardwell.....	.34
1 pr. Brackets, mounting, National (Ant. Cond.).....	.10
18 Lugs, soldering, Kellogg No. 8.....	.09
Screws, 2 doz. 1/2" No. 5 wood screws; 4 doz. 1/4" No. 6; 2 doz. 1/2" 6-32; 1 doz. 1" 6-32 machine screws; 3 doz. 6-32 machine nuts.....	.20
4 Feet mounting rubber.....	.02
1 pc. Strip bakelite, binding post, 1"x4".....	.10
Manual "How to become a Radio Amateur" (building instructions).....	.25

Your cost for all above parts.....\$10.00
Including One Pair very Light weight
Erpees Headset 1.50

\$11.50

If all above parts are taken together we will furnish for
\$11.00 NET.

To put this Receiver in operating condition you will need:

2 Tubes, DeForest Type 430.....	.80 ea.	\$1.60
2 No. 6 "A" batteries, Burgess dry cells.....	.40.....	.80
1 "B" battery, Burgess No. 2308.....		1.35

\$3.75

If parts, tubes and batteries are all taken at one time, price is **\$15.00 NET.** To add one more stage of audio amplification you will need:

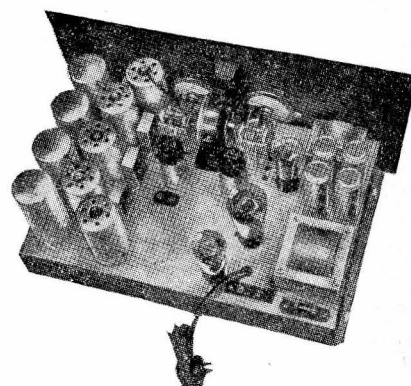
1 Transformer, audio, Thordarson, R-100.....	\$1.32
1 Socket, tube, Eby four prong.....	.24
1 Clip, fahnestock, Clarostat.....	.02
1 Extra "B" battery, Burgess No. 2308.....	1.35
1 "C" battery, 4 1/2 volt, Burgess No. 2370.....	.31

\$3.24

The New HAMMARLUND

COMET

Custom Built "PRO"



Outstanding Features

- 1—Eight-tube super-heterodyne circuit for A.C. operation, using screen-grid detector tubes and variable-mu intermediate stages.
- 2—Band-spread tuning at all frequencies within the range of the receiver.
- 3—Intermediate oscillator for C.W. code reception. Also a valuable aid in locating phone and broadcast signals.
- 4—Smooth control of sensitivity; also tone control for noise suppression. Vernier tuning controls.
- 5—"227" tube for quiet phone reception. Phone jack on panel; speaker and amplifier connection at back of chassis.
- 6—Isolantite coil forms, coil sockets and condenser insulation. Litz wound intermediates. Metal chassis. Complete shielding. Ventilated walnut cabinet with instrument type control panel.

THERE IS NOTHING TO EQUAL THIS NEW HAMMARLUND SUPERHET FOR AN IDEAL SHORT WAVE RECEIVER.

It will separate the stations on the 80 meter 'phone band like nothing else you have tried.

We will be very glad to quote you our special amateur discount upon request.

WE GUARANTEE OUR PRICES AND WILL MEET ANY COMPETITION

CHICAGO RADIO APPARATUS CO. 415 S. Dearborn St. Phone
Chicago, U. S. A. Harrison 2276

We will rent you an OMNIGRAPH PRACTICE set (complete with buzzer, key and battery) at \$2.00 per week. Deposit of \$45.00 required.

Tell 'Em You Saw It in the Radio Amateur Call Book Magazine

RADIO AMATEUR CALL BOOK MAGAZINE

(Registered at U. S. Patent Office)

Vol. 13

September, 1932

No. 3

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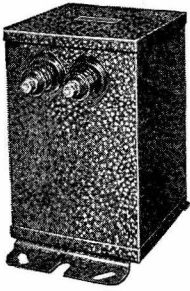
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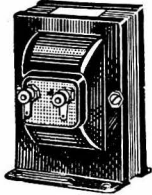
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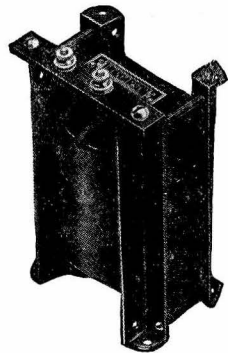
Thordarson Filter Reactor Transformers

Type Number	Capacity Amperes	Inductance Henries	List Price
T-4451	.150	25.	\$10.00
T-4456	.250	25.	15.00
T-4461	.750	25.	50.00



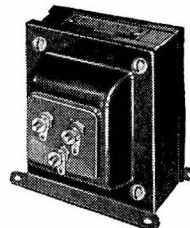
Thordarson Filter Reactor Transformers

Type Number	Capacity Amperes	Inductance Henries	List Price
T-1700	.130	28.6	\$4.50
T-1998	.160	27.3	5.00
T-2353	.200	8.1	5.00



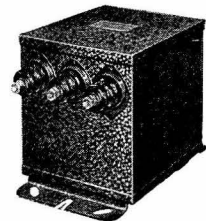
Thordarson Filter Reactors

Type Number	Capacity Amperes	Inductance Henries	List Price
T-2071	.150	18.3	\$10.00
T-2027	.300	23.5	13.50
T-2073	.500	26.5	17.00



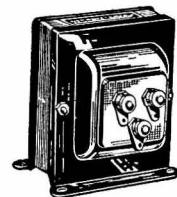
Thordarson Filament Supply Transformers

Type Number	Secondary Voltage	List Price
T-2382	12 ct 6.7 amp.	\$ 6.00
T-2383	12 ct 14.6 amp	10.00



Thordarson Filament Supply Transformers

Type Number	Secondary Voltage	List Price
T-4585	2.5 ct 10 amp.	\$12.00
T-4586	5 ct 20 amp.	15.00



Filament Supply Transformers

Type Number	Secondary Voltage	List Price
T-3680	2.5 ct 10 amp.	\$7.50
T-2230	7.5 ct 4.7 amp.	6.00
T-2180	5. ct 4 amp.	4.50
T-2610	15 volts 3 amp.	4.00
T-3081	1.5 volts 3 amp.	4.00
	2.5 ct 3.5 amp.	4.00

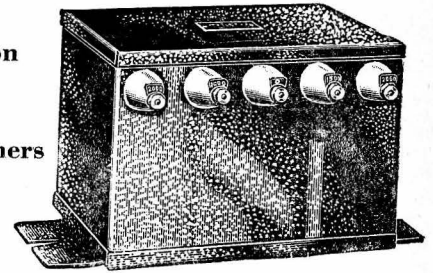


Microphone and Audio Transformers

Type Number	Purpose	List Price
T-2357	Single Button Mike to grid	\$3.00
T-3020	Double Button Mike to grid	5.00
R-300	Audio Interstage	4.00
R-190	Autoformer	3.00
T-2408	Push Pull, Input	4.00
T-4304	Push Pull, Input	4.50

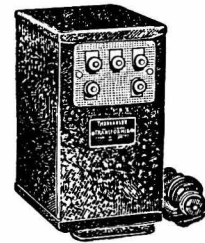
NEW LOW PRICES ON TRANSMITTING EQUIPMENT

Thordarson Plate Supply Transformers



Type Number	Voltage	Volt-Amperes	List Price
T-2388	3000-4000 ct	500	\$25.00
T-2389	3000-4000 ct	1000	30.00
T-4450	1050 ct	125	20.00
T-4455	3740 ct	750	35.00
T-4460	3860 ct	2200	85.00

Thordarson Plate Supply Transformers



Type Number	Voltage	Volt-Amperes	List Price
T-2385	1500-1100 ct	100	\$14.00
T-2387	2000-3000 ct	300	19.00

THORDARSON offers you the best in transmitting equipment always—and now at prices that make unnecessary to use anything but the best.

Amateur activity will soon be at its height, and, this year things will be more interesting than ever. Check over your installation now. Add *proved* THORDARSON equipment and *be there!*

THORDARSON equipment is the basis of successful communication.

THORDARSON transmitting equipment for sale by all good parts dealers. Thordarson Electric Manufacturing Company, 500 West Huron Street, Chicago, Illinois.

THORDARSON

Reg. U. S. Pat. Off.

TRANSFORMER
SPECIALISTS
SINCE 1895

THORDARSON ELECTRIC MFG. CO.
500 West Huron Street
Chicago, Ill.

Gentlemen:

Please send the following:

- ☐ Engineering Data Sheet
☐ Type 46 Class B Amplifier Bulletin

Name

Street & No.

City State

Tell 'Em You Saw It in the Radio Amateur Call Book Magazine

Short Wave Broadcast Stations

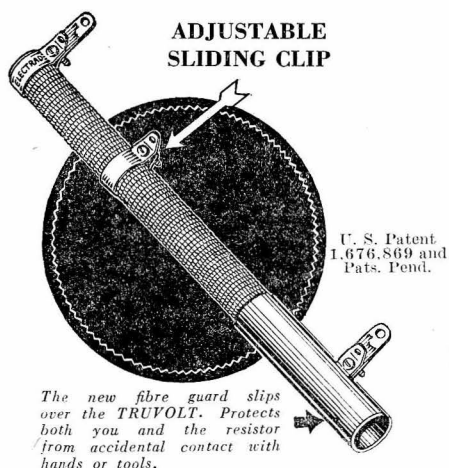
In response to continually increasing interest in the reception of events of world-wide importance, broadcasted on the higher frequencies, we are including this SHORT WAVE broadcasting section. Calls, addresses and accurate frequencies of radiofone broadcasting stations beyond 3000 kilocycles (lower than 100 metres) will be added to this list with the appearance of each new issue of Radio Amateur Call Book. Watch for them.

Kilocycles—Station

- 2758 VE9CI—Crawford Hopkins, 54 Eastman Av., London, Ont., Canada.
- 3000 VK6WF—Perth, West Australia.
- 3256 W2XCU—Ampere, N. J. (Wired Radio Inc., 60 Broadway, N. Y. City.)
- 4273.5 RW15—Khabarovsk, USSR.
- 4795 W2XCU—Ampere, N. J. (Wired Radio Inc., 60 Broadway, N. Y. City.)
- 5870 XDA—Trens News Agency, 43 Colon St., Mexico, D. F.
- 5970 HVJ—Vatican City, Europe.
- 6000 EAJ25—Radio Club, Barcelona, Spain.
- 6000 RW59—Moscow, USSR.
- 6020 DJC—Koenigs Wusterhausen, Germany.
- 6040 W2XAL—(WRNY)—Short Wave Broadcasting Corp., Coytesville, N. J.
- 6040 W9XAQ—(WMAQ)—Chicago Daily News, Elmhurst, Ill.
- 6060 W3XAU—Universal Broadcasting Co., 1940 Market St., Philadelphia, Pa.
- 6060 W8XAL—(WLW)—Crosley Radio Corp., Harrison, Ohio.
- 6060 7LO—Nairobi, Kenya, Africa.
- 6072 UOR2—Vienna, Austria.
- 6080 TIRA—Electra, Cartago, Costa Rica.
- 6080 W9XAA—(WCFL)—Chicago Federation of Labor, Chicago, Ill.
- 6095 VE9GW—Gooderham & Worts Ltd., Bowmanville, Ont., Canada.
- 6100 W3XAL—(WJZ)—National Broadcasting Co., Bound Brook, N. J.
- 6100 W9XF—(WENR)—National Broadcasting Co., Downers Grove, Ill.
- 6116 F3ICD—Cie. Franco-Indochinoise de Radiophonie, 106 Boul. Charner, Saigon, French Indo-China.
- 6140 W8XK—(KDKA)—Westinghouse El. & Mfg. Co., East Pittsburgh, Pa.
- 6140 KZRM—Manila Hotel, Manila, P. I.
- 6170 HRB—Tropical Radio Telegraph Co., Tegucigalpa, Honduras.
- 6220 I2RO—Roma, Italy.
- 6250 HC1DR—Arturo Meneses, Box 262, Quito, Ecuador.
- 6250 HKC—Colombia Radio & Elec. Corp., Bogota, Colombia.
- 6425 W2XCU—Ampere, N. J. (Wired Radio Inc., 60 Broadway, N. Y. City.)
- 6611 REN—Moscow, USSR.
- 6675 TGW—Telegrafos y Telefonos Nacionales, Seccion de Radio, Guatemala City, C. A.
- 6993 HKD—Elias J. Pellet B., Box 715, Barranquilla, Colombia.
- 7610 HKF—Manuel Jose Uribe & Cia., Apartado 317, Bogota, Colombia.
- 8650 W2XCU—Ampere, N. J. (Wired Radio Inc., 60 Broadway, N. Y. City.)
- 9125 HAT—Szekesfehervar, Hungary.
- 9360 CM2MK—R. V. Waters, Ave. de Italia 29, Habana, Cuba.
- 9494 —Lyngby, Denmark.
- 9510 VK3ME—Melbourne, Vic., Australia.
- 9520 OXO—Skamlebak, Zealand, Denmark.
- 9520 OXZ—Skamlebak, Zealand, Denmark.
- 9530 W2XAF—(WGY)—General El. Co., Schenectady, N. Y.
- 9530 W9XA—(KOA)—General Electric Co., 1370 Krameria St., Denver, Colo.
- 9550 DIA—Koenigs Wusterhausen, Germany.
- 9550 ZL2XX—Wellington, New Zealand.
- 9570 W1XAZ—(WBZ)—Westinghouse El. & Mfg. Co., East Springfield, Mass.
- 9570 W8XK—(KDKA)—Westinghouse El. & Mfg. Co., East Pittsburgh, Pa.
- 9570 KZRM—Manila Hotel, Manila, P. I.

Kilocycles—Station

- 9590 VK2ME—Sydney, NSW, Australia.
- 9590 VK3ME—Melbourne, Vic., Australia.
- 9590 W3XAU—Universal Broadcasting Co., 1940 Market St., Philadelphia, Pa.
- 9590 TIRA—Electra, Cartago, Costa Rica.
- 10007 CM2LA—Enrique Lasanta, Juna C. Zenea 172, Habana, Cuba.
- 10352 LSX—Transradio Buenos Aires, San Martin 329, Bs. As., Argentina.
- 10770 GBX—Rugby, England.
- 11450 KZRM—Manila Hotel, Manila, P. I.
- 11720 VE9JR—James Richardson & Sons Ltd., Middlechurch (Winnipeg), Man.
- 11751 G5SW—Chelmsford, England.
- 11751 TITR—San Jose, Costa Rica.
- 11760 DJD—Koenigs Wusterhausen, Germany.
- 11760 XDA—Trens News Agency, Calle Colon 43, Mexico, D. F., Mexico.
- 11777 F3ICD—Same as for 6116.
- 11800 UOR2—Vienna, Austria.
- 11800 W9XF—(WENR)—National Broadcasting Co., Downers Grove, Ill.
- 11800 W2XAL—(WRNY)—Short Wave Broadcasting Corp., Coytesville, N. J.
- 11810 I2RO—Roma, Italy.
- 11810 VE9GW—Gooderham & Worts Ltd., Bowmanville, Ont., Canada.
- 11830 W2XE—(WABC)—Atlantic Broadcasting Corp., near Wayne, N. J.
- 11840 W9XAA—(WCFL)—Chicago Federation of Labor, Chicago, Ill.
- 11840 KZRM—Manila Hotel, Manila, P. I.
- 11870 W8XX—(KDKA)—Westinghouse El. & Mfg. Co., East Pittsburgh, Pa.
- 12850 W2XCU—Ampere, N. J. (Wired Radio Inc., 60 Broadway, N. Y. City.)
- 13950 YO1—University, Bucharest, Roumania.
- 14430 VPD—Suva Radio, Viti Levu, Fiji Islands.
- 15008 CM6XJ—Frank H. Jones, Central Tuinucu, Tuinucu, Cuba.
- 15120 HVJ—Vatican City, Europe.
- 15200 DJB—Koenigs Wusterhausen, Germany.
- 15210 W8XK—(KDKA)—Westinghouse El. & Mfg. Co., East Pittsburgh, Pa.
- 15220 PCJ—Hilversum, Netherlands.
- 15250 W2XAL—(WRNY)—Short Wave Broadcasting Corp., Coytesville, N. J.
- 15270 W2XE—(WABC)—Atlantic Broadcasting Corp., near Wayne, N. J.
- 15330 W2XAD—(WGY)—General Electric Co., Schenectady, N. Y.
- 17300 W2XCU—Ampere, N. J. (Wired Radio Inc., 60 Broadway, N. Y. City.)
- 17440 XDO—Chapultepec, Mexico.
- 17750 HS1PJ—Royal Siamese Post & Telegraph Dept., Bangkok, Siam.
- 17760 DJE—Koenigs Wusterhausen, Germany.
- 17775 PHI—Huizen, Netherlands.
- 17780 W8XK—(KDKA)—Westinghouse El. & Mfg. Co., East Pittsburgh, Pa.
- 17780 W3XAL—(WJZ)—National Broadcasting Co., Bound Brook, N. J.
- 17780 W9XAA—(WCFL)—Chicago Federation of Labor, Chicago, Ill.
- 17780 W9XF—(WENR)—National Broadcasting Co., Downers Grove, Ill.
- 19900 LSG—Monte Grande, Argentina.
- 21200 LSN—Monte Grande, Argentina.
- 21460 W2XAL—(WRNY)—Short Wave Broadcasting Corp., Coytesville, N. J.
- 21500 W9XF—(WENR)—National Broadcasting Co., Downers Grove, Ill.
- 21540 W8XK—(KDKA)—Westinghouse El. & Mfg. Co., East Pittsburgh, Pa.
- 35000 W2XCU—Ampere, N. J. (Wired Radio Inc., 60 Broadway, N. Y. City.)



TRUVOLT Resistors

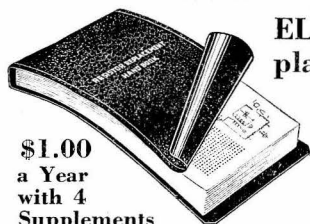
Electrad TRUVOLT Resistors, alone, offer several distinct advantages:

- 1—Patented construction permits larger wire, giving longer life and greater heat radiation.
- 2—TRUVOLT construction gives a better electrical contact.
- 3—TRUVOLT construction offers finer adjustment, due to its method of spirally winding the resistance wire.
- 4—Adjustable sliding clips may be added, removed or set for any desired voltages.
- 5—Every TRUVOLT Resistor has a full-length fibre guard. Prevents injury from accidental contact with tools—or hands.
- 6—Because of these exclusive features, TRUVOLTS are the most economical and adaptable of all resistors.



Vitreous Wire-Wound TRANSMITTER GRID LEAKS

Guaranteed not to develop noise or open circuits. Contain more wire of larger diameter, wound in smaller space. Monel Metal lugs and contact bands insure uniform expansion. Covered with vitreous enamel. Three types—40, 90, and 190 watts. List Price, \$1.50 to \$6.00.



\$1.00 a Year with 4 Supplements

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ELECTRAD Resistor Replacement HAND BOOK

The most valuable hand book ever compiled for the service man and experimenter. An accurate, loose-leaf guide to resistor values in all receivers. Saves time and money. Kept up-to-date by four supplements a year.

175 Varick St., New York, N.Y.
ELECTRAD
INC.

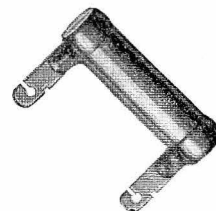
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Radio knowledge is constantly advancing, and Electrad engineering has kept in the forefront since the beginning of broadcasting. The quality of Electrad Products is of so high a standard that they are *unqualifiedly guaranteed to give complete satisfaction.*

Your every need in resistors, volume controls and amplifiers, for experimental or service work, can be supplied from the new Electrad Catalog. *Mail coupon for your copy.*

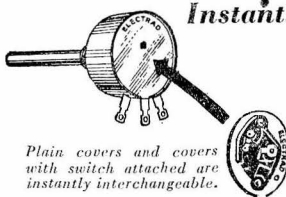
VITREOUS ENAMELED RESISTORS With Monel Metal Contact Lugs

Safe ratings and permanent resistance values are the outstanding characteristics of Electrad Vitreous Resistors. *Monel Metal bands and lugs, with improved method of attaching resistance wire, mean equal expansion and certain contact.* All standard sizes and types. List Price, \$1.25 to \$1.50.



STANDARD VOLUME CONTROLS

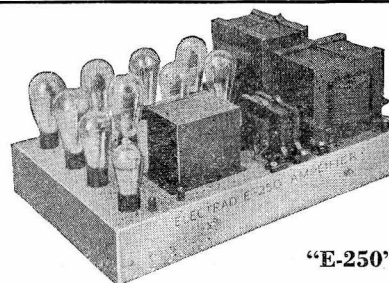
Instantly Changed to Power-Switch Type



Just five types will fit replacement requirements for 799 receivers. All standard types instantly convertible to use power-switch, merely by removing end cover and snapping switch cover in its place. Long aluminum shafts—easy to cut to desired length. Economical, because fewer types required in stock.

Direct-Coupled AMPLIFIERS

Electrad Direct-Coupled Amplifiers are widely praised for their high undistorted power, rich tone and economical operation. Four models are available, covering every private or public amplifier need, ranging from 1.6 watts to 21.9 watts of undistorted power output. List Price, \$32.50 to \$195.00, less tubes. Send for complete catalog.



"E-250"

ELECTRAD, INC., 175 Varick St., New York

.....Check here for general catalog.

Enclosed \$1.00 (check, currency or money-order) for ELECTRAD RESISTOR REPLACEMENT HAND BOOK, including four supplements (as published).

Name.....

Address.....

AC-9



Then..... up and spoke an Old Salt-

Officialdom, because of certain ethics involved, is sometimes rightly reluctant to express an opinion which might be construed as conferring favor. Not so, however, with those men who are less exalted. There, enthusiasm may find free expression.

So, a navy man writes—and out of deference to his position we withhold his name and that of his ship, for, after all, what he *says* is most important to condenser users:

The Allen D. Cardwell Mfg. Corp. 3 August, 1931.
83 Prospect Street, Brooklyn, N. Y.

Gentlemen: Please send me literature covering your new line of Midway transmitting and receiving condensers.

I contemplate building a substantial ham station *and having had years of experience with your products in navy transmitters and receivers wish to use CARDWELLS throughout. Of the thousands that have gone through my hands in the repair shop of this ship I have never as yet seen one broken down and I am told that this new line is even better than the old.*

I would appreciate literature or diagrams of a receiver using the 30 type tubes and one or two circuits of a good crystal controlled transmitter built around your condensers. For the present I shall use the '10 type screen grid tubes but wish to build so that later I can substitute 75 watt screen grids. Trusting that I may have a reply at an early date, I am,

Violent shocks, unavoidable abuse, the ravages of salt air, salt water and extremes of heat and cold are the constant lot of navy apparatus—Survival of all of these and 100% efficient service, is the requirement. Can you doubt the sturdiness and efficiency of the good CARDWELL?

CARDWELL CONDENSERS

TRANSMITTING AND RECEIVING FOR HIGH OR LOW VOLTAGES
Ask Any Ham—Send for Literature

THE ALLEN D. CARDWELL MFG. CORP'N
82 PROSPECT STREET BROOKLYN, N. Y.

The supplier who tries to discourage you, or attempts to substitute, or refuses to supply CARDWELLS has not your interest at heart. He can get CARDWELLS for you if service means as much to him as a little more profit. Get what you want—insist on CARDWELLS. Order direct from us if your dealer will not supply, or let us tell you where you may buy.

"The Standard of Comparison"

Your Copy is Ready



WRITE TODAY FOR YOUR FREE COPY OF OUR 1933 RADIO CATALOG . . .

80 pages of everything you need in radio. Complete stocks of the highest quality replacement parts, tubes, test equipment and accessories at the lowest wholesale prices.

UP-TO-THE-MINUTE SERVICE . . .

Our tremendous stocks and efficient organization are waiting to serve you promptly, courteously, and efficiently. Your order will be speeded on its way to you within a surprisingly short time after it reaches us. We operate with one idea uppermost—to fill all orders as rapidly as possible without sacrificing accuracy and thoroughness.

Complete stocks of set analyzers, meters, replacement condensers, volume controls, resistors, tools and radio hardware. Everything to take care of your needs.

No order is too small nor too large for us to take care of—we carry a tremendous variety of radio merchandise at the lowest possible wholesale prices.

QUALITY SOUND EQUIPMENT

The latest developments in class "B" amplification are listed in our new catalog, just off the press. Cash in on the new sound equipment business and use ALLIED for your headquarters. We can supply the newest high quality AC and battery operated, Portable, Truck and permanent sound systems at astonishingly low prices.

REPLACEMENT PARTS

Radio sets and equipment are being repaired this year more than ever. We carry only fully rated and tested quality replacement parts. No seconds, factory sub-standards, rejects or distress merchandise, classified as perfect merchandise with exaggerated claims. We guarantee every piece of merchandise we sell.

Write today for your **FREE COPY** of our
1933 Service Men's Radio Catalog

*The House
of
Outstanding
Values*

**ALLIED RADIO
CORPORATION**

833 WEST JACKSON BLVD.

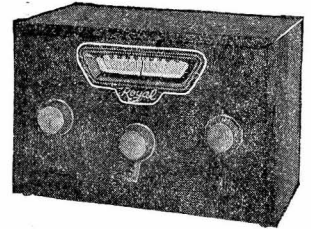
CHICAGO

*Service
That Is
Prompt and
Reliable*

Tell 'Em You Saw It in the Radio Amateur Call Book Magazine



SHORT WAVE RECEIVERS



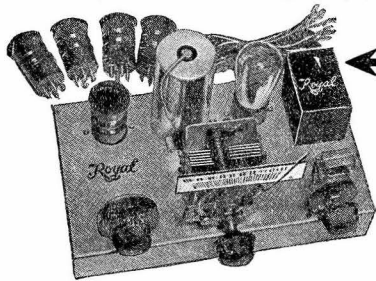
14 FEATURES THAT MAKE THEM GOOD:

1. ROUND THE WORLD RECEPTION

These Receivers have an established, enviable reputation for consistent reception of short wave stations in all parts of the world. Broadcasts from foreign countries on the other side of the globe—code signals from everywhere—airplane reports—television—police—ships—time signals—and many other thrilling and fascinating transmissions are received with a volume and clarity that will amaze you. (Don't take our word for this—read what ROYAL users say!)

2. MODERN, SCIENTIFIC DESIGN

Royal Receivers are the product of painstaking research and careful experimentation by expert radio engineers. Every modern feature of proven merit is



TRANS-X UNIT
(Pat. Pending)

utilized in its most advantageous form as applied to short wave reception. The Royal engineering staff includes government licensed short wave operators with many years of experience in this highly specialized branch of radio communication.

3. "TRANS-X" UNIT (Pat. Pending)

A new, revolutionary coupling system insuring maximum transference of signal energy. This remarkable trans-conductance unit gives three times as much amplification as ordinary methods of coupling. An exclusive Royal development, it is found only in Royal Receivers and is striking evidence of Royal superiority of design.

4. SCREEN GRID DETECTOR

The screen grid tube has from 43 to 166 times the amplification of the ordinary triode. The use of the "Trans-X" unit more fully realizes the engineers' dream of complete utilization of this tremendous gain and enables the Royal to easily bring in stations that less sensitive receivers (even those using four times as many tubes) are unable to detect.

5. POWER PENTODE OUTPUT

The pentode output tube as used in the Royal Receivers is equivalent to two stages of ordinary amplification and with far greater power.

6. LOUD SPEAKER RECEPTION

Promised by all but fulfilled by few! Royal's outstanding superiority enables us to guarantee every Royal Short Wave Receiver to completely overshadow all other sets in the same price class and to outperform receivers and converters selling for much higher prices.

7. DUAL RATIO DIAL

In keeping with the keynote of ultra modernity is

the two speed full vision dial. Regular ratio of 12:1 for ordinary tuning—a click of the lever—and a smooth, velvet-like ratio of 60:1 gives five times the former tuning spread. This knife-like selectivity and the clear full sweep scale enable you to single out with unerring accuracy the desired station—be it in the same town or in the antipode.

8. SMOOTH REGENERATION CONTROL

The importance of this control cannot be over emphasized. Too often neglected in sets designed to sell for a price, it has been the subject of costly experimentation by Royal engineers. With a velvety smoothness the Receiver is brought in or out of regeneration with no effect on tuning.

9. ECONOMY OF OPERATION

By making one tube do the work of two or three and do it far more efficiently the Royal Short Wave Receivers are more economical than any other set. Without the sacrifice of any of the desirable qualities of sensitivity, selectivity, and volume a considerable saving in current consumption and tube cost is effected. Battery models use the new economical two volt tubes.

10. WAVELENGTH RANGE

The most efficient method of inductance switching is by the use of well constructed plug-in coils. Royal coils are wound on special Royal bakelite forms with convenient handling ring and are color coded for easy identification. Standard equipment is four coils covering from 15 to 200 meters or three full band spread coils for the 20, 40, and 80 meter amateur bands.

An extra coil to cover from 200 to 550 meters is available at \$2.00 list price. 160 meter band spread coil—List Price—\$2.00.

11. EASE OF TUNING

Dual ratio full vision dial—perfected regeneration control—"Trans-X" coupling complete shielding—and modern tubes all combined in the Royal manner make the Royal Short Wave Receiver a revelation in tuning ease to novice and seasoned amateur alike.

12. CONSTRUCTION

Mechanically and electrically SOLID! Extra-Heavy aluminum finished metal chassis completely enclosed and totally shielded by an attractive art steel cabinet, tastefully finished in beautiful baked enamel. A rigid hinged cover facilitates coil changing. Royal Short Wave Receivers are built to last for years!

13. KITS

For those experimenters who prefer to "roll their own" Royal Short Wave Receivers are supplied in kit form. Every part necessary to construct the entire receiver including wound coils, stamped chassis, cabinet and complete, simple wiring instructions is contained in these kits.

14. WARRANTY

With unbounded confidence in our products, we unhesitatingly guarantee COMPLETE SATISFACTION OR YOUR MONEY BACK! Every Royal Short Wave Receiver is closely held to rigid standards of construction and is individually tested for actual reception of distant stations on all bands. Each set is fully guaranteed against any electrical or mechanical defects for a period of six months. You may buy Royal with confidence!

Here's What Royal Users Say!

"It's the sweetest little receiver I have ever used, barring none!"

"I have different makes of SW sets, but the Royal Model RP gets more stations than any other set, and with more pep."

"Can lay the phones on the table, walk around the room, and still hear FYA in Pontoise, France."

"Received Spain, and several VK's and ZL's through strong interference."

"Received the ROYAL a week ago in fine condition—received many stations in all parts of the world and have heard all continents (all broadcast stations, no code)."

"I certainly congratulate you for putting the best little DX hound on the market, within reach of any ham."

(NAMES ON REQUEST)

ROYAL STAR (The famous Model RP)

A two-tube with a sterling pedigree. This remarkable receiver is not to be confused with poorly designed sets cheaply thrown together to sell at "bargain" prices! Uses one type 232 super-sensitive detector and a type 233 power pentode. List Price—\$25.00. SPECIAL..... \$14.70 Complete Kit..... \$11.76 Set of ROYAL Short Wave Tested Tubes..... 2.55

A C STAR

Uses one of the new type 58 super-control screen grid pentodes, a 247 pentode audio amplifier, and a 280 rectifier. Especially designed for humless, quiet operation on Short Waves. Ready to plug into AC line. List Price \$40.00. SPECIAL..... \$23.52 Complete Kit..... \$20.58 ROYAL Tested Tubes..... 2.15

ROYAL CHIEF

A knock-out three tube set embodying all the well known features of the STAR plus a stage of high gain type 232 screen grid radio frequency amplification. List Price \$30.00. SPECIAL..... \$17.64 ROYAL Tested Tubes..... \$3.75

Full set of Batteries for any ROYAL.....\$3.95

A C CHIEF

The AC STAR with an additional type 58 used as screen grid radio frequency amplifier. List Price \$45.00. SPECIAL..... \$26.46 Complete Kit..... \$23.52 ROYAL Tested Tubes..... 2.95

ROYAL OLYMPIC

A four tube receiver that shatters all records for performance, quality, and price! Utilizing the basic structure of the ROYAL STAR it incorporates a high gain screen grid RP amplifier stage and an additional booster Class A audio amplifier tube for super dynamic power. A separate control to modulate the signal down to any desired level is another feature. Uses 2-232, 1-230, and 1-233 tubes. List Price—\$35.00. SPECIAL..... \$20.58 Complete Kit..... \$17.64 ROYAL Tested Tubes..... 4.50

A C OLYMPIC

A DeLuxe AC operated receiver employing two 58's, a 56, a 47, and a 280. List Price—\$50.00. SPECIAL..... \$29.40 Complete Kit..... \$26.46 ROYAL Tested Tubes..... 3.60

ROYAL ALL BAND FREQUENCY MONITOR

NO PLUG-IN COILS—20—40—80—160—FULL BAND SPREAD

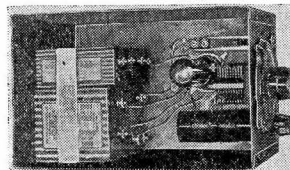
*The ROYAL Monitor Is a Modern Instrument
Made Expressly for the Amateur*

No more loose coils to misplace or damage and ruin calibration. Band selector is located on the panel.

Full wide spread on every band.

Checked against Piezo controlled oscillator to insure extreme accuracy of calibration.

Housed in a neat crackle finished sturdy metal cabinet.



Complete for 20, 40, and 80 meter bands—with tube, batteries and accurate calibration chart..... \$9.50

160 METER BAND—\$1.50 EXTRA

REMEMBER—Harrison Stocks a Complete Line of Quality Apparatus for the Amateur and Experimenter. Acme, Cardwell, Flechtheim, Hammarlund, Jewell, Littlefuse, Morrill & Morrill, National, RCA, Royal, Weston, etc.

HARRISON RADIO CO.

142 Liberty Street

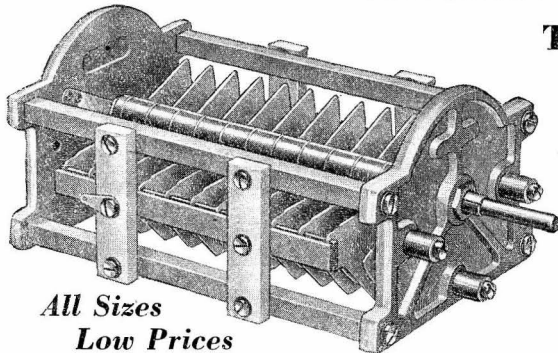
Dept. A-3, New York City

SEND FOR
FREE
CATALOG

FOR BETTER SERVICE—BUY FROM HARRISON—FOR BETTER QUALITY

Tell 'Em You Saw It in the Radio Amateur Call Book Magazine

The New HAMMARLUND CATALOG is "Paradise" for SHORT-WAVE WORKERS!



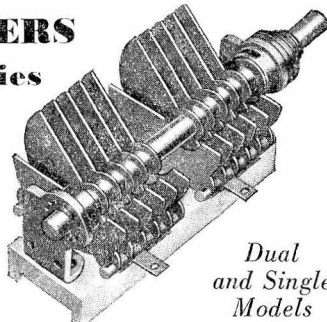
All Sizes
Low Prices

TRANSMITTING CONDENSERS

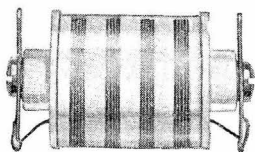
Heavy, polished aluminum plates, with rounded edges. 10 per cent wider spacing than others. Lowest-loss Isolantite insulation. Rigid, cast aluminum alloy frame. Perfect-fitting bearings. Smooth, self-cleaning rotor contact.

Double-Spaced MIDGET CONDENSERS For Ultra High Frequencies

May be used for either receiving or transmitting. Wide spacing between plates aids frequency stability. Isolantite insulation for the low losses necessary in five-meter work. Ideal for five-meter transmitters using tubes up to 245's or 210's in push-pull.



Dual
and Single
Models

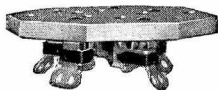


ISOLANTITE R. F. CHOKES

Designed especially for short-wave and ultra short-wave receivers and transmitters, but equally efficient in the regular broadcast band. Very compact. Easily mounted or suspended. Isolantite form. Moisture-proof windings.

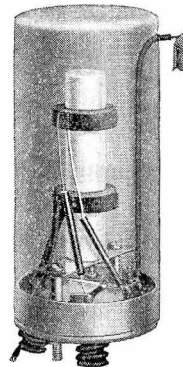
ISOLANTITE SOCKETS and COIL FORMS

Sockets have Isolantite base and perfect spring contacts. Low losses and noiseless. 4, 5 and 6 prongs. Isolantite Coil Forms for Ultra Short-Waves. Low loss. No drilling. Five prongs for standard sockets. Also, similar forms, with 4, 5 and 6 prongs for standard short-waves.



INTERMEDIATE FREQUENCY TRANSFORMERS

Similar to those used in the famous "COMET" Superheterodyne. Litz wound. Wax impregnation. Tuned by adjustable condensers with mica dielectric and Isolantite base. Shield, 2 3/32" wide by 4 1/2" high, for base mounting.



*It didn't need improving
—but WE DID IT!*

THE COMET "PRO" Superheterodyne was already the peer of short-wave receivers, but recent tube developments permitted important improvements. So, following the usual Hammarlund policy, we made them.

The "PRO" now contains four "58" tubes, two "57's," one "80" rectifier, and a "247" output tube.

It is even more selective. Delivers full loud-speaker volume. The oscillator is more stable, due to electron coupling. Intermediate amplification is increased, with greater stability. Smoother operation on the 10 to 20 megacycle band. More effective shielding. Simple band-spread tuning, of course. New metal cabinet removes all stray influences. Wood cabinet optional. A really GREAT receiver!

ONE OF MANY PROOFS:

"We tested several short-wave receivers to find one with the sensitivity to maintain international schedules, and sufficient selectivity for the severe interference now prevailing, there being about 1,000 amateur stations in Los Angeles County alone. The answer was the 'Comet Pro.' We work all continents with loudspeaker volume, including England, France, Austria, Czechoslovakia, South Africa, Japan, India, China, Ecuador, Peru and many others. Any operator at W6USA will tell you that the 'Comet Pro' is the finest high-frequency receiver he ever handled. Congratulations on a splendid piece of engineering."

NORMAN L. MADSEN,
Operator, W6USA.

Official Station of the Olympic Games.

For police, ships, airports, broadcasting stations and other professional use, the COMET "PRO" is the most reliable and efficient receiving instrument ever devised.

The Mail Coupon TODAY for 16-page illustrated folder giving all details.

COMET
Custom-Built "PRO"
by
HAMMARLUND

For Better Radio
Hammarlund
PRECISION
PRODUCTS

Mail Coupon for Complete Catalog

HAMMARLUND MFG. CO.
424-438 W. 33rd St., New York
Please send me a copy of your new catalog.

Name.....

Address.....

AC-9

HAMMARLUND-ROBERTS, INC.
424 W. 33rd St., New York

Please send me 16-page illustrated folder, describing the COMET "PRO" Short-Wave Superheterodyne.

Name.....

Address.....

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Tell 'Em You Saw It in the Radio Amateur Call Book Magazine

ROUND THE WORLD RECEPTION

With the

"POWERTONE" Short Wave Battery Operated Receiver

\$7.95

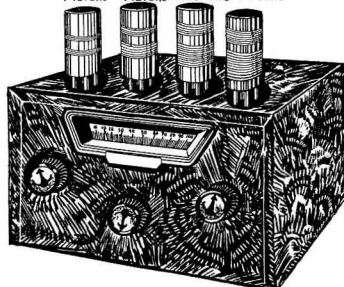
With Coils

TWO VOLT TUBES

Set of Tubes.....\$2.50

15—200 METERS

15T045 METERS 45T090 METERS 90T0150 METERS 150T0200 METERS



\$7.95

With Coils

HAMMARLUND CONDENSER

Set of Full Sized Batteries..\$2.25

Amazing results on this set have convinced us that we have reached the utmost in the reception of short waves with a battery operated receiver.

Statements by "hams," professionals and customers will verify the fact of "ROUND THE WORLD RECEPTION."

The use of the new two-volt tubes greatly increase reception sensitivity, and selectivity, and at the same time current consumption is kept at a minimum. A 232 screen grid tube, and a 233 power pentode amplifier tube is used with remarkable results.

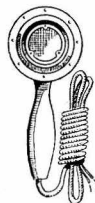
An added feature is the use of a Hammarlund condenser for tuning purposes, which personifies the best for short wave reception. The parts are sturdily mounted on a metal base, which in turn is placed into a beautifully crackle finished metal cabinet to completely shield its contents. The beautiful vernier dial gives the set a strictly modernistic finish, and at the same time greatly improves the ease of tuning.

Install one in your home, store, or "lab," and get your share of enjoyment or increase in business which this low priced short wave set will surely bring.

With the set of four plug-in coils furnished with the above receiver, the wave lengths from 14-200 meters are covered.

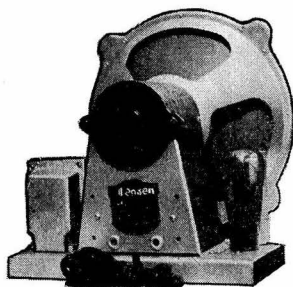
R.C.A.-VICTOR HAND MICROPHONE

For Home Recording and Public Address Systems



Just the mike for the ham phone transmitter. Has a fifteen hundred ohm resistance. A real opportunity for the service man to demonstrate and install one in each radio set. This microphone was manufactured by the Kellogg Switchboard and Telephone Co. for the R.C.A.-Victor Model 86.

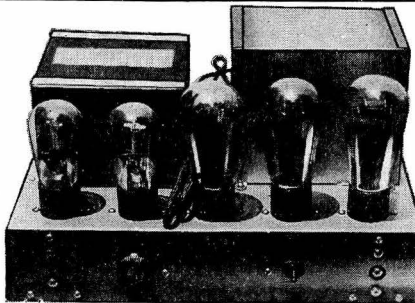
List price\$18.00
Specially priced 1.95



JENSEN Jr. Auditorium Dynamic Chassis

Improved model D-7 A.C. Jr. Auditorium Speaker uses a 280 rectifying tube. These speakers are equipped with either Push Pull or single output transformers and reproduce with magnificent volume from any set or amplifier. An ideal speaker for all purposes.

Price A.C. Model.....\$9.95
Price D.C. Model, D-7, 2500 ohm field..... 6.95



POWERTONE Push-Pull Direct Coupled Amplifiers

For use with any receiver (detector plate lead clips to input post on this amplifier) can be used as a phonograph amplifier or with any suitable microphone arrangement. Will operate one or more dynamic speakers. External field current is required to operate. Volume is exceptionally great, no distortion at all. Three position toggle switch enables proper line voltage adjustments. Compact and durably constructed for operation on 110-120 volts A.C., 50-60 cycles. Shipping weight, 30 lbs. Regular list price \$100.00.

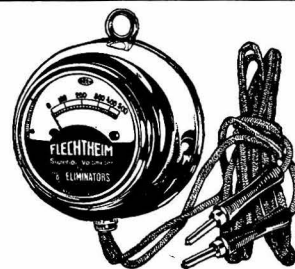
P. P. Model 245 uses 2-227, 2-245's and 1-280 No. 251—Our price (less tubes)..\$16.95
P. P. Model 247 uses 2-227, 2-247's and 1-280 No. 252—Our price (less tubes)..\$17.95



FLOOR MICROPHONE STAND

A well balanced and constructed floor stand. Height can be extended from 36 to 70 inches. Can be had in a various assortment of harmonious and blending colors.

Price\$3.95



FLECHTHEIM

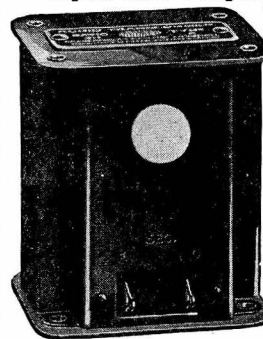
High Resistance Voltmeters

Furnished in highly nicked finish meter cases, equipped with flexible cords having well insulated metal tips, with which to make connections. Uses only 5 mls. current resistance, 200 ohms per volt. 2 3/4" diameter. Shipping weight 3 lbs.

No. 143-BV-500, 0-500 volts D.C. List \$8.50. Your Price.....\$2.25

SANGAMO

Input and Output Push-Pull Transformers



Sangamo, a name that signifies the best in transformers. We are offering to you a pair of Sangamo input and output P.P. Transformers at these extremely low prices for the first time.

Pair\$2.95
Each 1.59

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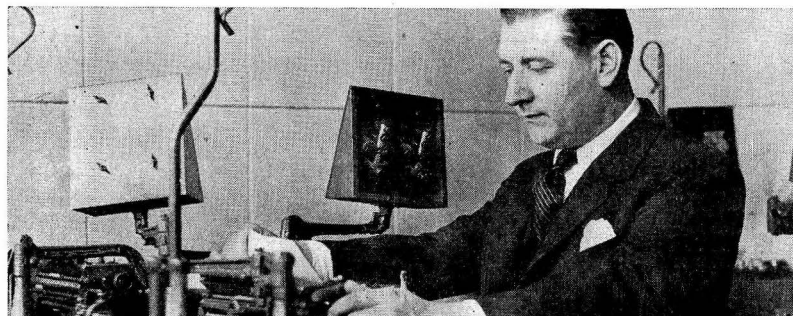
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Tell 'Em You Saw It in the Radio Amateur Call Book Magazine

If you want to be a Fast and Accurate RADIO OPERATOR



World's Champion, Theodore R. McElroy in Action

GET YOUR SPEED WHERE THE CHAMPIONS GOT THEIRS!!

World's Champion Operator for Three Years in a Row is CANDLER TRAINED



Theodore R. McElroy, Boston, won official title as World's Champion Radio Operator, and then retired undefeated. McElroy is the fastest Radio Operator in official records. Read what he says:

"By the application of CANDLER SYSTEM methods I won the Radio Telegraphic Championship of the world three consecutive years at 50 wpm, 55-1/10 and 56 1/2 wpm, respectively. During this time I was working as a Morse operator for Western Union Telegraph Co.

"I say to all Radio operators and hams by all means take THE CANDLER SYSTEM HIGH SPEED TELEGRAPHING and "MILL" COURSES. In just a few weeks the results will astound you."—THEODORE R. McELROY.

Junior Course Scientific Code Instruction

The JUNIOR COURSE is the result of 20 years' successful experience in teaching code and developing expert operators. We actually teach you code in less than half the time required by any other methods. This course scientifically trains the Mental and Physical factors involved in sending and receiving.

Before studying you are taught how to study. Before practicing you are taught how to practice. We prepare you for each step before you take it, and you absorb code in such a way that before you are aware, you have formed the habit of sending and receiving easily, rapidly, accurately.

Advanced Course in High-Speed Operating

This is a Course of Training for operators and the only training in the world which develops *skill* and *speed* in sending and receiving code by scientific methods. It trains Brain, Muscles and Nerves to CO-ORDINATE in doing fast, accurate work. Develops your concentration and confidence. Corrects faulty sending, relieves muscle and

nerve strain and quickly develops amazing speed in sending and receiving. If you want to develop championship speed, you need the Advanced Course and Telegraph-Touch Typewriting. This combination is the last word in High Speed operating and is responsible for the success of thousands of the fastest operators, including Champion McElroy.

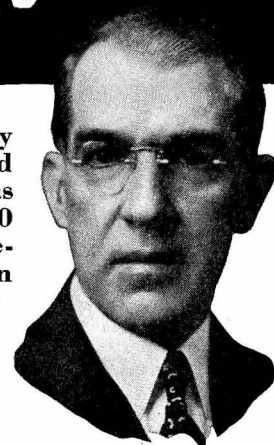
Telegraph-Touch Typewriting for Operators

Receiving is one thing, writing on your "mill" is another. To be able to receive easily and copy on your "mill" without that strained, conscious effort, is exactly what Telegraph-Touch Typewriting teaches you. By this method you learn quickly to receive on your "mill" anything that is sent, regardless of speed, without having to think con-

sciously of spelling or hitting the keys. You think only of words and groups of words as in talking or listening to some one talk. We train you by easy steps to do this. By following our own original methods you can easily COPY SEVERAL WORDS BEHIND the sender without becoming nervous or confused. Many report 50% increase in speed within a week.



The World's Only
Code Specialist and
the Man Who Has
Trained over 45,000
Radio and Tele-
graph Operators in
the Past 20 Years



The fastest Radio Operators — those holding the Best Jobs — Drawing the Highest Salaries — Owe their Skill and Speed to

CANDLER SYSTEM Scientific Training

Write to Walter Candler today for his FREE Book of Facts for Radio Operators. Or mail the coupon below. Let Candler advise you and give you the benefit of more than 20 years' experience training the world's fastest operators. There is no obligation.

The famous Original Candler Method is the only scientific system of learning code and high speed telegraphing.

There is no substitute for Candler Training, and it is not taught in schools. Candler students who had no knowledge of code have become efficient operators under our direction in less than half the time and one-fourth the expense of other methods. We have helped thousands of Amateurs obtain their "tickets" and Radio Operators their Second, First and Extra First Class Commercial Licenses. Many had failed by other methods. Candler trained men never fail.

Let The Candler System make you a good radio operator. Write at once for full particulars of the Course or Courses you are interested in, and for additional proof of what this System has done for over 45,000 Radio and Morse operators and Officials whom we taught. Mail coupon NOW!



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CANDLER SYSTEM CO.,
Dept. 86, 6343 S. Kedzie Ave.,
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Send me your book of FACTS FOR RADIO OPERATORS, details of all your Courses, and proof of what Candler Training has done for others, including McElroy's story.

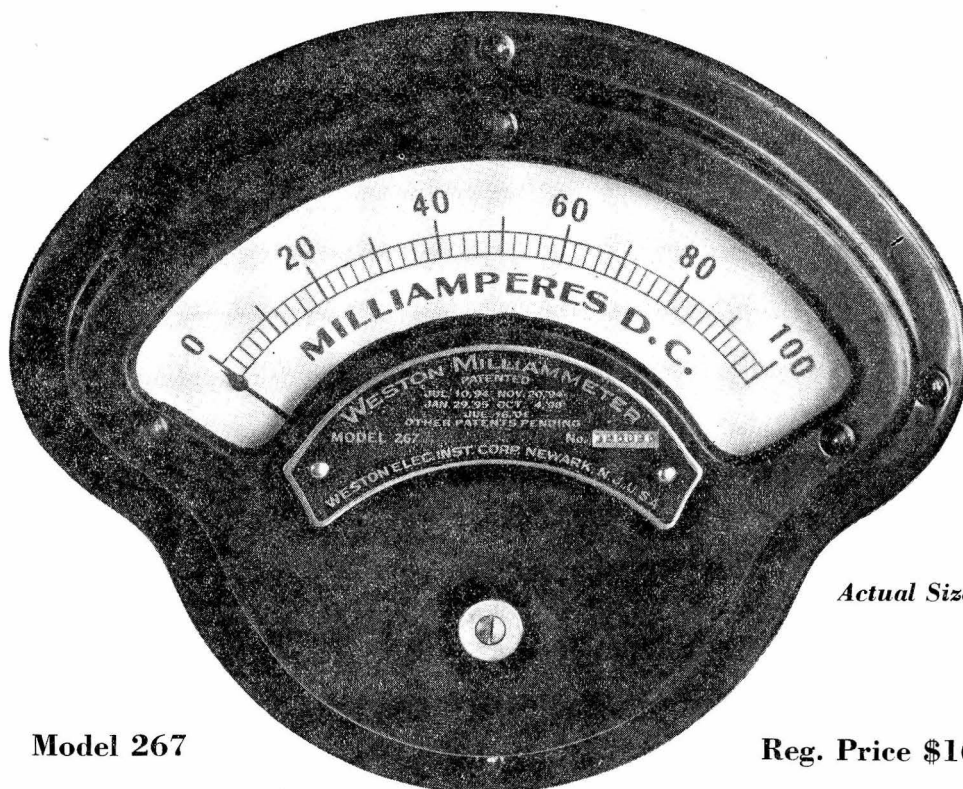
☐ I have never learned Code. ☐ I now have.....
License. My present speed is.....wpm
sending,wpm receiving.

Name.....

Address.....

City.....State.....

NEW WESTON METERS



Actual Size

Model 267

Reg. Price \$16.25 ea.

Special **\$5.00** each

RANGES

D. C. Milliammeters

25-0-25
0-25
0-50
0-100
0-300
0-500

D. C. Ammeters

0-2
0-3
0-5
0-7½
0-15

D. C. Voltmeters

0-15
0-20
0-25

All Brand New in Original Factory Cartons

LARGE STOCK OF OTHER WESTON INSTRUMENTS

Write for Meter List No. 6

UNIVERSAL WIRELESS SALES COMPANY

412 No. Leavitt Street

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Chicago, Illinois

Tell 'Em You Saw It in the Radio Amateur Call Book Magazine

LEEDS STARTS The Fall Season With A Smashing Price Reducing Sale

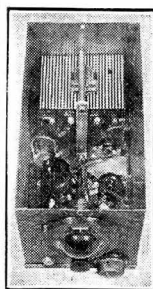
The Home of RADIO

Leeds Lusty 56 Meg. Twins Are Still Going Strong

3 tube 56 Meg. Super Regenerative Receiver..... **\$12.45**

56 Meg. T.N.T. Push-Pull Oscillator..... **\$7.85**

Both units are wired and unconditionally guaranteed



LEEDS Band Spread MONITOR

furnished complete—DeForest 430 tube, A and B batteries and 20-40-80 coils. 50 division spread on 20 meters—35 divisions on 40 meters and 70 divisions on 80 meters. Unconditionally guaranteed.

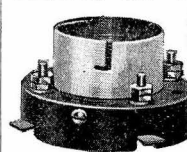
\$9.95

FLECHTHEIM Transmitting Condensers

High tension non-inductive trans. condensers used by over 50% of the Broadcasting stations

Cap. Mfd.	Former list price	Special
Type TC	1000 v.d.c.	750 v.r.a.c., r.m.s.
1.0	\$3.75	\$1.50
2.0	6.50	2.50
4.0	11.00	4.50
Type T	1500 v.d.c.	1000 v.r.a.c., r.m.s.
1.0	\$4.50	\$1.88
2.0	8.00	3.25
4.0	14.00	5.50
Type TH	2000 v.d.c.	1600 v.r.a.c., r.m.s.
1.0	\$10.00	\$3.50
2.0	15.00	6.25
4.0	25.00	11.00
Type HP	3000 v.d.c.	2200 v.r.a.c., r.m.s.
1.0	\$20.00	\$7.50
2.0	32.00	12.50

LEEDS 50 Watt Socket



Heavy special porcelain base. Double phosphor bronze springs, high grade construction throughout. Extra special price

95c

LEEDS SPECIAL TRANSFORMERS

Leeds 866 transformer—2 1/2 v. 10 amp. Center tapped, 10,000 v. insulation..... **\$2.75**
Leeds mounted filament trans. 7 1/2 v. 5 amp. center tapped..... **2.95**
Leeds mounted filament trans. 2-7 1/2 v. 3 amp. center tapped windings..... **3.95**
Leeds mounted 10 v. 7 amp. fil. trans. with 3 primary line taps to insure correct voltage..... **3.95**
Leeds mounted fil. trans. 2 1/2 v. 10 amp. 1000 v. insulation for receiver or 888 fil. in low voltage power supplies..... **1.15**

Dubilier Dry Electrolytic Condensers

8 mfd. Special..... **\$0.60**
8-8 mfd. Special..... **1.10**
8-8-8 mfd. Special..... **1.60**



Navy Type Telegraph Key

List **\$3.60**. Navy Knob—1/8" Tungsten contacts. While they last..... **\$1.25**

Leeds SUPREME Transmitting Key

Ideal for beginner's practice set. List **\$1.75**. Special **55c** NOW



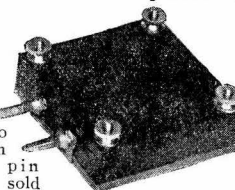
No. 398 Gold Bug Automatic Transmitting Key

\$12.50 List. Simple in construction, correct mechanically, and electrically rugged and durable 3/32" contacts, complete with cord and plug. Brand new in original cartons. While they last..... **\$4.45**

No. 10202 Extra heavy 3/16" contact..... **\$5.45**

LEEDS Precision Crystal Holder

A husky job with accurately ground plates; accommodates crystals up to 1 1/4" square, with standard 3/4" pin spacing. Never sold for less than \$3.45.

**\$1.45**

Crystal—160-80 meter bands; one-tenth of 1% accuracy..... **\$4.35**

Genuine Type C Baldwin Phones

\$12.00 List—Mica diaphragm. Limited quantity—only 2 pair to a customer.

Special..... **\$3.95**
Erpe imported 4000 ohm featherweight phones. Special..... **1.35**
Para imported featherweight phones..... **1.35**
\$5 Elseman Head phones; 2500 ohms; brand new; complete with head band and cords..... **1.00**

LITTLEFUSES—Complete assortment of sizes at Special Prices

Aerovox High Voltage Condensers

Type 1456 2500 v.	Test	Type 1457 5000 v.	Test
.00005 to .0005.....	\$.29	.00005 to .00015.....	\$.38
.001.....	.38	.0002.....	.44
.0015.....	.47	.00025.....	.44
.002.....	.56	.0005.....	.53
.0025.....	.60	.001.....	.71
.003-.004.....	.66	.0015.....	.83
.005.....	.75	.002.....	.95
.0075.....	.96		
.01.....	1.20		

Thordarson Transformers and Chokes

Drastic cuts. Why gamble, when you can purchase nationally known apparatus at inferior merchandise prices? Items listed below are typical of the entire line.

T-2387	2000-3000ct	300 w.	Special	\$10.85
T-2388	3000-4000ct	500 w.	Special	14.28
T-2389	3000-4000ct	1 K.W.	Special	17.10
T-2098	1120ct	150 w.	Special	5.14
	2-7 1/2 v. windings			

CHOKES

T-1700	.130 mils	28 H.	231 ohms res.	Special	\$2.54
T-1998	.160 mils	27 H.	190 ohms res.		2.83
T-2071	.150 mils	18 H.	240 ohms res.		5.70
T-2027	.300 mils	23 H.	134 ohms res.		7.70
T-2073	.500 mils	26 H.	135 ohms res.		9.68
T-4451	.150 mils	25 H.	291 ohms res.		5.70
T-4456	.250 mils	25 H.	140 ohms res.		8.55
T-3100	.200 mils	15 H.	125 ohms res.		5.70

DeForest—TUBES—RCA

DeF	RCA	DeF	RCA
112A.....	\$0.78 \$0.91	286.....	\$1.40 \$1.65
171A.....	.48 .56	287.....	.87 1.04
199.....	1.28 1.50	288.....	1.40 1.65
201A.....	.40 .47	289.....	1.40 1.65
210.....	1.95 4.24	240.....	1.79
222.....	1.58 1.86	245.....	.57 .68
224A.....	.83 .97	246.....	.91
226.....	.43 .50	247.....	.80 .94
227.....	.53 .62	250.....	3.66
230.....	.83 .97	256.....	.76
231.....	.83 .97	257.....	.97
232.....	1.17 1.39	258.....	.97
233.....	1.40 1.65	280.....	.53 .62
234.....	.83 .97	281.....	2.50 3.06
235.....	.83 .97	282.....	.65 .76

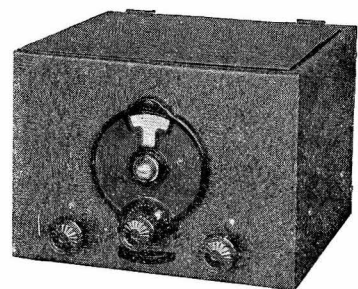
NATIONAL PRODUCTS

at prices that are worth investigating

S.W. 58 less coils.....	\$40.88
Power supply for S.W. 58.....	23.24
S.W. 34 less coils.....	38.52
S.W. 3 A.C. model less coils for use with National power supply.....	20.88
5880 A, B and C supply.....	20.30
S. W. 3 D.C. 6 volt—2 1/2 v. tubes.....	20.88

All National Coils in stock at lowest prices

Type A.G.S. Super Heterodyne, A.C. or D.C., in stock. This receiver is unquestionably the finest on the market. Band spread coils may be secured for amateur use of this commercial receiver. Write for Special Prices.



We are pleased to introduce a permanent solution to most amateur audio problems at a remarkably low price. The new Kenyon class B-46 amplifier system may be adapted to a number of uses in every ham's shack. Double microphone input, '24-A voltage amplifier, '46 class A second stage, and class B '46's in the final amplifier. Develops 20 watts undistorted audio output. Will cover an athletic field like a tent as a public address amplifier or will 100% modulate a 40 watt carrier.

1 Kenyon B-46-PT power transformer for class B amplifier.....	\$5.88
2 Kenyon BC-100 filter chokes 15 henry 150 mil.....	4.71
1 Kenyon BLG universal input microphone transformer.....	3.25
1 Kenyon B-3000 H Plate impedance.....	2.65
1 Kenyon B-46-I class B input transformer.....	3.53

For Public Address amplifiers:

1 Kenyon B-46-O class B output transformer with 500 and 15 ohm secondaries.....	3.53
1 Kenyon B-46-RF output. Secondary 4000 ohms 100 MA capacity connects in series with B supply to RF amp. Basic transformer kit with either type output transformer and blue print as listed above.....	3.82
Complete kit of parts including metal chassis with blue print.....	19.60
	30.00

Announcing Chrisell Acoustic Condenser Microphones

These units will enable you to put your phone in the "broadcast quality" class at a remarkably low figure.

Complete kit of parts for condenser head..... **\$2.95**

Condenser head tested and guaranteed..... **7.95**

Condenser head with two stage resistance coupled amplifier, complete in shielded box, tested and guaranteed..... **19.75**

LEEDS Rectifier Tube Specials

280M Rectifier.....	\$1.25
Improved 888 rectifier, now only.....	1.75
Regular 866; formerly \$2.25 now.....	1.95
Heavy duty 210, now.....	1.50
Special low loss 210 as described in Sept. 1931 QST.....	2.95
Newly developed super 866 with spiral filament, self-supporting plate; flashovers are practically impossible in this tube due to its unique construction.....	3.95

Weston Meters

Model 267—List \$16.25	
Front panel mount. There are only a few of the following numbers left.....	
0-15 V.D.C.....	\$3.95
0-20 M.A.D.C.....	5.00
0-30 M.A.D.C.....	5.00
0-150 M.A.D.C.....	5.00

HARDWICK HINDLE ANSWERS THE BLEEDER RESISTOR AND GRID LEAK PROBLEMS ONCE FOR ALL. USE THIS LIST FOR REFERENCE ON YOUR RESISTOR PROBLEMS

Voltage	Ohms Resistance	Wattage	Price
2000	20000	50	\$1.08
500	25000	75	1.47
750	40000	75	1.53
1000	50000	100	2.25
1500	2-40000 Units	100	3.85
		200	4.65
2000	2-50000 Units	100	3.95
		200	4.75
2500	2-60000 Units	100	4.45
		200	5.25
3000	3-50000 Units	100	5.95
		200	7.15

Tube	Ohms Resistance	Wattage	Price
1-210	15000 var. tap	50	\$1.05
2-210's	10000 var. tap	75	1.26
1-203-A	10000	100	1.65
2-203-A's	10000 C.T.	200	2.25
1-852	20000	100	1.75
2-852's	10000 C.T.	200	2.25

We can also supply the new 25, 50 and 75 watt ranges of resistors at low prices.



45 VESEY STREET,
NEW YORK CITY
New York Headquarters for
Transmitting Apparatus
WHEN IN TOWN VISIT
OUR STORE

MAIL ORDERS FILLED
SAME DAY

10% Cash
Must Accompany All
C. O. D. Orders

Hundreds of other items at Big Special Prices. Constant changing of prices and merchandise makes it impossible for us to issue a catalog. Let us quote you on your needs by return mail.

NOTE—ABOVE PRICES INCLUDE GOVERNMENT TAX

RADIO CAN BE MORE THAN A HOBBY!

Of all the fascinating hobbies—**RADIO IS FIRST!** "Hams" the world over enjoy its thrills. The endless interest in short waves—transmitting and receiving on your own call letters—no wonder amateurs are captivated! And now comes the opportunity to add to this enjoyment by ***Making Your Hobby Show You an Income!*** Have you given any thought to this angle of radio? Have you considered the idea of commercializing your radio experience?

NOW IS THE TIME TO TRAIN YOURSELF FOR A REAL FUTURE IN THE RADIO FIELD!

With general business conditions far from normal, hundreds of amateurs who looked upon radio purely as a diverting interest are now turning their experience to more concrete advantage. Why not? Some of the country's finest radiomen started their careers as amateurs.

THERE ARE ALWAYS POSITIONS TO BE FOUND FOR GOOD RADIOMEN! In the radio service field alone, there are endless opportunities. Repair and service work is already paying thousands of men steady incomes. To start in this field is remarkably easy! A high percentage of our radio service students and graduates are in business for themselves with excellent incomes.

But there are so many other fields! Ships—Shore Sta-

tions—Airways—Radio Manufacturing Plants—the opportunities for trained men are endless!

SOUND RADIO TRAINING is essential to progress, however. A haphazard knowledge won't do. You've got to have a thorough engineering background if you expect to make the grade.

Our Institute can help you there. We are the only school of its kind in the country teaching radiomen **EXCLUSIVELY!** We do not instruct beginners. Our training teaches the "WHY" of radio. If you have had some radio experience, and want to **COMPLETE** your knowledge to the point where you do not have to take a "back seat" to any engineer in the country, then write us at once.

Among Our Students Are the Operators of the Follow- ing Stations:

W1BBJ	W9BGN	W8AJ
W4RE	VE2AC	W9CDC
W6BZQ	W5GS	W9GWA
W8BHK	W7AXH	W3HN
VE2CR	W8ASR	TI5P
W1FM	W9EGF	W8BTS
W5BJA	VE2AS	W9DBT
W6EEA	W5AUS	W9COX
W8FIK	W8KH	W3CKH
W2ACQ	W9EOD	W6AQR
W1BGD	W8CJP	W8AWQ
W5AUC	W3AVW	VE3VS
W6BDJ	W5BU	W4NE
W8CYL		

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NEW LOW PRICES

Thordarson Transformers

T2387—1500-1000-0-1000-1500	\$11.17
T2388—2000-1500-0-1500-2000	14.70

Class "B" 46 Trans.

T5303—Plate Trans.—400-0-400, 200 MA	\$ 4.75
T5455—2½ v. at 10 amp.	1.95
T2353-A—Swinging Filter Choke.....	2.94
T5289—Input Trans.—46 to 46's as "B"	2.94
T5356—Output 46's to 8 or 4 ohm.....	2.94

Complete Data Sent on Request

T5448—800-0-800 at 150 MA.....	5.25
T5450—15 hr. at 300 MA.....	3.95
R175—7½ v. at 2½ amp. ....	.55
T2229—360-0-360 at 300 MA.....	1.75
T3952-B—750 v. CT, 5 v. at 2 amp., 2½ v. at 12 amp.....	1.95
T3773—600-0-600 at 150 MA, 2-7½ v. at 2½ amp.....	2.95
B.T.—30 hr.-125 MA Choke.....	.49

RCA Power Amplifiers

No. 1 uses 1—199, 1—210, 1—281, 1—874, 1—876	\$3.50
No. 2 uses 1—199, 1—171A, 1—280.....	3.50
No. 3 uses 1—171A, 1—280.....	3.00

Make fine power supplies and phonograph amplifiers.

Magnavox Dry Cond.

Peak Voltage—500 DC, 4 mfd.....	\$0.35
Working Voltage—450 DC, 6 mfd.....	.40

Dubilier Paper Block

Dubilier 210 Condenser Block—Capacities:	
2 mfd. at 800 v., 2-2 mfd. at 600 v., 1-1 mfd. at 400 v., 5-1 mfd. at 200 v.....	\$0.95

Electrad Volume Controls

1 M, 2 M, 3 M, 5 M, 10 M, 15 M, 25 M, 50 M, 75 M, 100 M, 200 M, 500 M, Pot	\$0.60
With switch .....	.85

We have an Electrad volume control for every set

We carry every item we list in stock. Your order will be shipped 4 hours after we receive it.

Aerovox Resistors

1 Watt Carbon	\$0.12
All sizes	2.50

Neon Glow Lamps

½ watt	\$0.45
1 watt .....	.55

A Complete Stock of Pilot Parts

AND

IMPORTANT NEW ITEMS

De Forest—510	\$ 3.95
De Forest—566	4.00
Sylvania—866	4.00
De Forest—503A-45-11	14.95
Cardon—585-250 .....	.69

Sangamo Cond.

.0002, .00025, .0003, .0004, .0005, .0006	\$0.24
.0015, .002 .....	.30
.005 .....	.42
.01 .....	.69
.003, .004 .....	.36
5000 v., All.....	1.08

Ohmite "Red Devils"

10 watt rating, 1 to 25000 ohms.	
20 watt rating, 25000-100000 ohms.	
Price—1 to 25,000 ohms.....	\$0.21
30,000 to 70,000 ohms.....	.38
75,000 to 100,000 ohms.....	.44
Ohms Ohms Ohms Ohms Ohms	
10 200 750 3,000 20,000 50,000	
15 250 1000 4,000 25,000 60,000	
20 300 1200 5,000 30,000 70,000	
25 400 1500 7,500 35,000 75,000	
100 500 2000 10,000 40,000 85,000	
150 600 2500 15,000 45,000 100,000	

Mershon Condensers

8 mfd.	\$0.35
-------------	--------

TUBES

Type	De Forest	RCA Licensed
01A	\$0.36	\$0.25
10	2.25	1.10
12A .....	.70	.45
20	1.35	....
22	1.42	.95
24A .....	.74	.35
26 .....	.38	.30
27 .....	.47	.20
30 .....	.74	.69
31 .....	.74	.69
32	1.05	.69
33	1.26	.89
34	1.26	.75
35 .....	.74	.65
36	1.26	.75
37 .....	.81	.75
38	1.26	.75
39	1.26	1.15
40	1.41	....
41	1.28	....
42	1.28	....
44	1.28	....
45 .....	.51	.35
4670
4772	.45
50	2.25	1.45
5658	.50
5770	.50
5870	.50
71A42	.35
8047	.35
81	2.25	1.25
8261	.55

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ON
MIDWEST ORDERS**
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Littelfuses

1000 v., ½ amp.....	\$0.21
1000 v., ¾ amp.....	.24

Sterling Meters

0-15 MA DC.....	\$0.39
0-100 MA DC.....	.39
0-3 v. AC.....	.69
0-8 v. DC.....	.39
0-10 v. DC.....	.39

Readrite Meters

0-50 MA	\$0.59
0-100 MA59
0-150 MA59
0-200 MA59
0-300 MA59
0-15 v. AC.....	1.47

Navy Knobs

Fit any key.....	\$0.15
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Boys, these are just a few of our many bargains. If you wish to order from this page, mention the Call Book, or, better still, write for our new bargain sheet. We are always glad to give you more complete information on any of our merchandise. All letters answered the same day.

JOHN WALLACE.

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Webster 4076

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Wabash 0291

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UNCLE DAVE

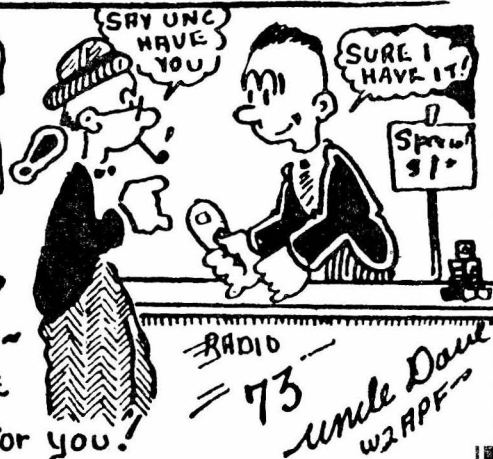
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If we have not got it we will get it for you!



Big Scoop! Just What the Amateurs Have Been Waiting For!

25 watt tube 7½ volts filament, 850 plate volts, grid volts 75-100 ONLY	\$ 4.75	866 new type, spiral filament, circular plate, extra heavy duty, uncond. guar. 1000 hrs.	\$ 3.35
866 Heavy duty, mercury rectifier tubes 1.59			
15-watt 210's, all firsts	\$ 1.20	CG-1162, 5 watt navy xmitting tubes, four for	\$ 1.00
5-meter 210 with grid on top	2.75	RCA UX240, \$.75; 3 for	2.00
New type 281M	1.75	UX250, big special	.65
New type 871	1.50	82M	.65
280M or 83	.90	Hytron 46 tube, \$.75; 56, \$.65; 57 or 58	.80
UX281, first quality	1.39		

Pilot Universal Super Wasp, tunes from 15 to 650 meters, all AC, new and in original cartons, list \$95.00; completely wired and assembled. \$32.50

Readrite set analyzers No. 710, tests 4, 5, 6, 7 prong tubes, list \$25.00; our net price 14.00

BLEEDER RESISTANCES

20,000 or 25,000 ohm 100 watt, each. .79

METERS

Readrite milliammeters 0-15, 25, 50, 100, 150, 200, 300 or 400, each. .59

0-5 mills, each \$1.15; 0-10 mills, each. 1.00

AC Voltmeters 0-6, 0-10, or 0-15 \$1.50; G. E. 0-500 mills new \$2.75; used. 1.50

Weston model 301 0-50 mills, each. 3.39

RELAYS

W.E. Polarized relays 1000 ohms DC relays 3 mills at 3 volts, adj. shielded will follow 40 WPM, each. 1.95

Mfg's model relays, follows 40 WPM, and has two ½" contacts, unmounted, ea. .59

BEEHIVE INSULATORS

Standoffs, made of brown glazed porcelain, furnished with knurled nuts, per dozen. .59

Pyrex lead-in bowls. 1.45

Pyrex 3" insulators, each. .27

Pyrex 7½" insulators, each. 2.00

Pyrex 12" insulators, each. 2.00

MICROPHONES

Extra special, American Double Button Microphone type EL, this month only, net. 5.00

Universal watch case model, single button mikes. 1.20

Universal Chromium plated single button "Baby Mikes," list \$7.50; net. 4.20

Kodak microphone cases, each. 1.49

American microphone cases (chromium plate Universal BB mike, list \$25.00; new and improved model, net. 14.00

Universal BB bullet microphone, list \$50.00 our price, lowest in country. 28.00

American type CD double button microphone, list \$23.00; net. 11.75

Jefferson single button mike xformers, fully shielded and fully mounted, \$1.95; double button. 2.95

CRYSTALS

Unfinished crystal blanks, either X or Y cut \$1.20; finished oscillating blanks. 2.00

80 or 160 meter crystal, ground to your frequency, accurate within .1 of 1%, with free bakelite adj. holder. 4.50

Crystal grinding compound, per pkg. \$.25; 40 meter crystals. 8.00

Bakelite adj. crystal holder, \$.89; same but plug-in type. 1.15

Precision plug-in crystal holder. 1.49

ARSCO XMITTERS AND RECEIVERS

Wavemeters and Monitors

Arasco Jr. single 245 TNT Xmitter, complete with power pack, tubes, and mercury rectifier. \$12.95

Arasco Senior Push Pull TPTG 245 xmitter, complete with tubes and mercury rectifier built to Handbook specifications. 18.00

Arasco 2 tube bread-board receiver, made of finest material with 2 Speed 230 tubes \$8.75; in cabinet. 9.25

PHONES

Brandes Superior \$ 1.45

Baldwin type C. 3.95

Type G. 4.95

CONDENSERS—SPECIAL!

Flechtheim 2 mfd. 1500 volt, each \$3.50; 4 mfd. 1500 volts, each. 6.00

Each mounted in metal case with stand-off insulators.

Arasco xmitting condensers (1 year unconditional guarantee).

1500 volt	2000 volt
1 mfd. \$1.75	1 mfd. \$3.50
2 mfd. 3.00	2 mfd. 6.00
4 mfd. 4.50	4 mfd. 10.00

3000 volt	3500 volt
1 mfd. \$7.25	1 mfd. \$8.00
2 mfd. 10.50	2 mfd. 12.00
4 mfd. 18.75	4 mfd. 22.00

Very sturdily built, finest material, all cont. working DC voltage.

Arasco unmounted condensers but sealed in paraffin, guaranteed 90 days.

600 volt	800 volt
1 mfd. \$.20	1 mfd. \$.30
2 mfd. .25	2 mfd. .40
3.5 mfd. .35	3.5 mfd. .50
4 mfd. .40	4 mfd. .60

1000 volt
1 mfd. \$.45
2 mfd. .70
3.5 mfd. \$.90
4 mfd. 1.00

WIRE: GENUINE ACME—Solid Enameled Aerial Wire

100 ft. No. 10 gauge \$.95; No. 12 gauge \$.65; No. 14 gauge. .50

200 ft. No. 10 gauge \$1.65; No. 12 gauge \$1.25; No. 14 gauge. .90

TRANSFORMERS

Thordarson—2-7½ volt CT windings, 1-1½ volt CT winding, high voltage 1500 volts CT, Tapped primary; weight 11½ lbs.; height 6"; width 4½"; breadth 5", each. 3.50

Arasco power transformers, all fully mtd., encased in aluminum-bakelite posts—a real heavy job and a pride to any Xmitter; 750 volts each side center; 2-7½ volt CT fl. windings, each. 6.00

1000-1500 v. each side center 375 watts, each \$ 8.00

1500-2000 v. each side of center 850 watts, each 11.00

1500-2500 v. each side of center 850 watts, each 14.20

Arasco filament transformers; 2½ volts for pair of 866s 1.45

5 volt 10 amp; 7½ volt 7 amp; 10 volt 6½ amp; 11 volt 6½ amp; 12 volt 3½ amp, each type. 2.25

Samson Power Transformers: Filament transformer No. 217, delivers 5 volts, CT, and 7½ volts CT, ideal for a pair of 281's, very conservatively rated.

No. 132 "B" eliminator xformer: 2-2.5 volts each side C. T., 300 volts each side of center.

No. 463: 7.5 volts C.T.; 5 volt C.T.; 2.5 volts C.T.; 1.5 volts not C.T.

ANY OF ABOVE finished in black, with rubber cord for AC, beautiful job. 2.69

Telenexes with three tapes, special for this month only. 10.00

MISCELLANEOUS

G.E. instantaneous overload relays, 5 amp, special, each. 5.00

Extra heavy duty Swedish imported soldering irons, each \$2.00; heavy duty \$1.50; light duty. .95

25 cycle 110 volt transformer, delivers 375 volts each side of center, 5 volt winding, two 2½ volt and one 1½ volt windings, special each. 3.75

.001 43-plate variable condenser, each. 1.65

Eby binding posts, per dozen. .50

Famous improved Clear-tone Wave traps, each. .59

Western Electric VT-2 tubes, each \$1.25; VT-1 tubes, each. .79

Latest type 8 mfd. electrolytic condensers, metal cased, each. .79

Arasco-Franklin Class "B" transformers, per pair 7.00

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Semi-mounted microphone cases. 1.39

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Radio Amateur Callbooks, prepaid. 1.00

4, 5, and 6 prong coil forms, bakelite, best quality obtainable, each. .30

G.E. Tungar Trickle chargers with bulb. 6.00

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